



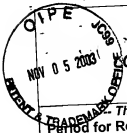
# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/546,823	04/11/2000	Ning Nicholas Chen	EUS04042-EWU	4725
24112 7590 11/17/2003				
COATS & BENNETT, PLLC				
P O BOX 5				
RALEIGH, NC 27602				
			EXAMINER	
			LEE, CHI HO A.	
			ART UNIT	PAPER NUMBER
			2663	10

DATE MAILED: 11/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



COPY

MR 2663

## Office Action Summary

Application No.

09/546,823

Examiner

Andrew Lee

Applicant(s)

CHEN ET AL.

Art Unit

2663

The MAILING DATE of this communication appears on the cover sheet with the correspondence address.

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOV 10 2003

## Status

- 1) ☒ Responsive to communication(s) filed on 11 April 2000.
- 2a) ☐ This action is **FINAL**.
- 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-3, 7-10, 19 and 20 is/are rejected.
- 7) ☒ Claim(s) 4-6, 11-18 and 21-27 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some \* c) ☐ None of:

- 1. ☐ Certified copies of the priority documents have been received.
- 2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
- 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) ☐ The translation of the foreign language provisional application has been received.

- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4, 9.

- 4) ☐ Interview Summary (PTO-413) Paper No(s): \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Koshino U.S. Patent Number 6,603,763.

Re Claim 1, Fig. 2 teaches a Internet Connection Device 11 (one PFC) and plurality of Packet Switches (PDSN) wherein fig. 4b teaches Packet Switch Device number associated with private IP address group (generating a record of unique PDSN Id numbers) (See col. 7, lines 5-40); wherein the 11 selects the Packet switch device in response to the private IP address for the Packet Switch (See Col. 4, lines 24-56).

Re Claim2, refer to Claim 1, wherein fig. 4c teaches Private IP address (PSDN ID) associated with Mobile Station ID (assigning a unique MS identification), wherein the table identifies the total number of Packet Switches available for selection.

Re Claim 3, refer to Claim 1, wherein Fig. 4 B teaches the memory 106 with n SW with each SW associated with a unique private IP address based on a order sequence.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 7-10, 19-20 rejected under 35 U.S.C. 103(a) as being unpatentable over Koshino U.S. Patent Number 6,603,763.

Re Claim 7, refer to Claim 1, Koshino fails to explicitly teach that the system includes plurality of PFCs. However, one skilled in the art motivated to include plurality of Internet Connection Device 11 coupled to the Internet for expanded coverage. Therefore, it would have been obvious to one ordinary skilled to include plurality of Internet Connection Devices to the fig. 1 of Koshino.

Re Claims 8, 9, refer to Claim 7, wherein the Internet Connection Device 11 receives IP packet from Internet and associates the IP packet to select the Packet switch coupled to the mobile unit (data communication between MS and PDSN) wherein IP packet is associated with a Private IP address (regardless of which PFC).

Re Claim 10, refer to Claim 7.

Re Claim 19, refer to Claim 7, fig. 1 teaches the MS (a first mobile station) identified by ID having a transceiver for transmitting packets; Internet Connection Device 11 having a port for communication data packets with MS and a port coupled to Internet 10, wherein the Internet 10 is coupled to plurality Internet connection Devices for expanded coverage; Plurality of Packet Switches (a plurality of n PDSN) each having

Application/Control Number: 09/546,823

Art Unit: 2663

a port for data communication with 11 and each PW is associated with a unique ID and Private IP address.

Re Claim 20, refer to Claim 9.

***Allowable Subject Matter***

5. Claims 4-6, 11-18, 21-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

In combination with Claims 1-4, 7-11, and 17-21, prior art fails to teach the selection of the first PSDN ID number includes dividing the first MS ID by the number of (n) PSDNs in the table.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Lee whose telephone number is 703-305-1500. The examiner can normally be reached on Monday to Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 703-308-5340. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Application/Control Number: 09/546,823

Art Unit: 2663

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

A handwritten signature in black ink, appearing to be 'AL' with a stylized flourish.

October 3, 2003